

ANTARCTIC RECORD Vol. 38, No. 1

CONTENTS

Scientific Papers

- Fine scale distribution of phytoplankton abundance along the cruise track of the icebreaker SHIRASE, from Tokyo to Fremantle, Australia in the 1991 season *Tsuneo Odate and Mitsuo Fukuchi*.... 1
- Comparative study on feeding strategy and activity patterns of two Antarctic fish: *Trematomus newnesi* Boulenger, 1902 and *Gobionotothen gibberifrons* (Lönnberg, 1905) (Pisces, Nototheniidae) under different light conditions
..... *Edith Fanta, Ana Aparecida Meyer, Sonia Regina Grötzner and Márcia Fabiana Luvizotto*.... 13

Scientific Notes

- Methods for *in situ* chemical analyses of snow and ice samples (in Japanese)
..... *Kokichi Kamiyama, Takeshi Kimoto, Shuichi Ezumi, Eiichiro Nakayama and Okitsugu Watanabe*.... 30
- Gravity survey on the Mizuho Plateau, East Antarctica along the traverse routes to Dome-F from Syowa Station (in Japanese)
..... *Kokichi Kamiyama, Masaki Kanao, Hideo Maeno and Teruo Furukawa*.... 41

Review

- Cytotaxonomical aspects of Antarctic mosses, with special reference to the proportion of polyploidy *Hiroshi Okada and Hiroshi Kanda*.... 54

Reports

- Temperature profiles of the Greenland Sea in the summer of 1992: Report of the oceanographic observation on the R/V LANCE cruise
..... *Shuki Ushio, Meiji Honda and Hajime Ito*.... 63
- Temperature profiles of the Greenland Sea in the summer of 1993: Oceanographic observation on the R/V LANCE cruise
..... *Hajime Ito, Svein Østerhus and Shuki Ushio*.... 68
- Operation and evaluation of an experimental hovercraft for Antarctic use (in Japanese) *Rinichi Murao, Sadao Takeuchi, Minoru Inaba and Masayuki Hosoya*.... 72